

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10. (Cancelled)

Claim 11. (New) A method of communicating, in an uplink mode, in a mobile communication system comprising a base station and a mobile terminal, the method comprising the steps of:

selecting a Channelization code, at random, from a plurality of available Channelization codes;

selecting a Training code;

encoding data according to the Channelization code, with a spreading factor dependent upon the selected Channelization code;

transmitting the Training code with the data;

detecting the Training code and the data;

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applying a set of rules to the Training code and spreading factor whereby to determine the Channelization code; and

decoding the data.

Claim 12. (New) A method as claimed in Claim 11, wherein the spreading factor of the randomly selected Channelization code is 16.

Claim 13. (New) A method of communicating, in a downlink mode, in a mobile communication system comprising a base station and a mobile terminal, the method comprising the steps of:

selecting a Channelization code;

selecting a Training code in accordance with a predetermined assignment sequence;

encoding data according to the Channelization code, with a spreading factor dependent upon the predetermined assignment sequence;

transmitting the Training code with the data;

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detecting the Training code and the data;

determining the training code sequence by the mobile terminal; and

applying a set of rules to the Training code and spreading factor
whereby to determine the Channelization code; and

decoding the data.

Claim 14. (New) A method as claimed in Claim 3, wherein the
predetermined assignment sequence is:

for Q = 16: {m₁, m₀, m₅, m₄, m₃, m₂, m₇, m₆}

for Q = 8: {m₆, m₂, m₄, m₀}

for Q = 4: {m₂, m₀}

for Q = 2: {m₀}

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where Q equals the spreading factor and m_j represents the available Training codes.

Claim 15. (New) A Code-Division Multiple Access mobile telecommunication system operable in accordance with the method as claimed in Claim 11.

Claim 16. (New) A code-Time Division Multiple Access mobile telecommunications system operable in accordance with the method as claimed in Claim 11.

Claim 17. (New) A time division duplex mobile telecommunications system operable in accordance with the method as claimed in Claim 11.

Claim 18. (New) A UMTS mobile telecommunications system operable in accordance with the method as claimed in Claim 11.

Claim 19. (New) A mobile terminal operable in accordance with Claim 11.

Claim 20. (New) A base station operable in accordance with Claim 11.